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Job No.: CACE/BBMP/KSC/6/2021-2022 Date: 13.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client **Assistant Executive Engineer,** Project Division, Yelahanka Zone,BBMP, Bangalore..

Agency **Sri. K S Chowdareddy** Contractor, Bangalore

Name of Work Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore

Location Dasarahalli

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.07.2021	13.07.2021	8.021	265.5	11.80
2	06.07.2021	13.07.2021	8.069	245.5	10.91
3	06.07.2021	13.07.2021	8.025	260.1	11.56

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Project Division
Yelahanka Zone
BBMP, Bangalore - 92

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/KSC/6/2021-2022 Date: 03.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client **Assistant Executive Engineer,** Project Division, Yelahanka Zone,BBMP, Bangalore..

Agency **Sri. K S Chowdareddy** Contractor, Bangalore

Name of Work Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore

Location Dasarahalli

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.07.2021	03.08.2021	8.132	369.9	16.44
2	06.07.2021	03.08.2021	8.154	358.2	15.92
3	06.07.2021	03.08.2021	8.009	372.2	16.54

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Job No.: CACE/BBMP/KSC/6/2021-2022 12.07.2021

TEST REPORT ON PVC PIPE

Client : **Assistant Executive Engineer,** Project Division, Yelahanka Zone,BBMP, Bangalore.

Agency **Sri. K S Chowdareddy** Contractor, Bangalore

Name of Work Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore

Location Dasarahalli

BIS Code: IS 4985:2000

Sample Identification: PVC pipe 110mm dia

Date of Testing 12.07.2021

Sl.No	Test	Test Result	Requirements as per IS 4985:2000
1	Nominal Outer Diameter (mm)	110	110 mm
2	Mean Outside Diameter (mm)	110	Min 110.0 mm Max 110.4 mm
3	Outside Diameter at Any Point (mm)	110.2	Min 108.6 mm Max 111.4 mm

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Job No.: CACE/BBMP/KSC/6/2021-2022 Date:12.07.2021

TEST REPORT ON CPVC PIPE

Client : **Assistant Executive Engineer,** Project Division, Yelahanka Zone,BBMP, Bangalore.

Agency **Sri. K S Chowdareddy** Contractor, Bangalore

Name of Work Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore

Sample Supplied by: :AGENCY

BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 20mm dia

Date of Testing 12.07.2021

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	22.1	22.2 mm
2	Mean Outside Diameter (mm)	22.2	Min 22.1 mm Max 22.3 mm
3	Outside Diameter at Any Point (mm)	22.1	Min 22 mm Max 22.4 mm
4	Density	1505Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Job No.: CACE/BBMP/KSC/6/2021-2022 12.07.2021

TEST REPORT ON CPVC PIPE

Client : **Assistant Executive Engineer,** Project Division, Yelahanka Zone,BBMP, Bangalore.

Agency **Sri. K S Chowdareddy** Contractor, Bangalore

Name of Work Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore

Location Dasarahalli

BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 25mm dia

Date of Testing 12.07.2021

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	28.5	28.6 mm
2	Mean Outside Diameter (mm)	28.5	Min 28.5 mm Max 28.7 mm
3	Outside Diameter at Any Point (mm)	28.6	Min 28.4 mm Max 28.8 mm
4	Density	1485 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Job No.: CACE/BBMP/KSC/6/2021-2022 Date: 16.07.2021

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT CONCRETE FLOORING TILES

Client	**: Assistant Executive Engineer,** Project Division, Yelahanka Zone,BBMP, Bangalore.
Agency	**Sri. K S Chowdareddy** Contractor, Bangalore
Name of the work	Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore
Location	Dasarahalli
Description of Sample:	Cement concrete flooring tiles, 25mm thick
Reference to BIS codes:	IS 1237-2012 Specification for Cement Concrete Flooring Tiles
Date of test:	12.07.2021 to 16.07.2021

1.WATER ABSORPTION:

Sl. No.	Water Absorption		Acceptability as per IS 1237-2012
	Percent by weight		
	Individual	Average	
1	2.9	3.1	The average water absorption of 6 tiles shall not exceed 10%
2	3.1		
3	3.5		
4	2.8		
5	2.6		
6	3.4		

2.FLEXURAL STRENGTH:

S.No.	Wet Transverse Strength		Acceptability as per IS 1237-2012
	Individual	Average	
	N/mm^2	N/mm^2	
1	6.5	6.6	The average modulus of rupture in bending of 6 tiles shall not be less than $3N/mm^2$
2	6.8		
3	6.2		
4	6.4		
5	6.8		
6	6.8		

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Job No.: CACE/BBMP/KSC/6/2021-2022 Date 16.07.2021

TEST REPORT ON CERAMIC TILES

*Client	**: Assistant Executive Engineer,** Project Division, Yelahanka Zone,BBMP, Bangalore.
*Agency	**Sri. K S Chowdareddy** Contractor, Bangalore
*Name of Work	Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore
Location	Dasarahalli
Technical Reference	: IS: 13630 - 2006 - Method of Testing Ceramic Tiles IS 15622 - 2006 - Specification of Ceramic Tiles
No. of Samples Tested	: 05 (Five)
Date of Testing	12.07.2021 to 16.07.2021

I. MODULUS OF RUPTURE

Sl. No.	Measured Dimension (mm)	Modulus of Rupture (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300x300x6	46.5	47.34	Average 47, indivisual minimum 44 N/mm^2
2	300x300x6	48.5		
3	300x300x6	47.2		
4	300x300x6	48.3		
5	300x300x6	46.2		

II. CHEMICAL RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300x300x6	No visible effect	Class AA, min (13630 Part 8)
2	300x300x6	No visible effect	
3	300x300x6	No visible effect	
4	300x300x6	No visible effect	
5	300x300x6	No visible effect	

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III. STAIN RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300x300x6	Stain Removed by Water	Class 1, min (13630 Part 8)
2	300x300x6	Stain Removed by Water	
3	300x300x6	Stain Removed by Water	
4	300x300x6	Stain Removed by Water	
5	300x300x6	Stain Removed by Water	

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QC-ABSTRACT

Name of Work-Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore-R K Hegdenagar

Sl No.	Item	Quantity As Per BOQ	Required No's of tests	Actual No's of tests	Tests
1	PCC 1:3:6	33.92Cum	1	1	Cement
					Sand, Aggregates
2	Steel	14.45Tonne	1	1	-
3	M20	14.86Cum	2	2	Concrete Cube Compressive strength
4	M15	12.96Cum	2	2	Concrete Cube Compressive strength
5	M25	134.64Cum	6	14	Concrete Cube Compressive strength
6	CC Block-8"	315.96 Sqm	1	1	Compressive strength
7	CC Block-4"	91.47 Sqm	1	1	Compressive strength
8	Ceramic Tiles	3.75 Sqm	1	1	–
9	Cpvc Pipe-20mm	80 m	1	1	–
10	Cpvc Pipe-25mm	45.50 m	1	1	–
11	Brick	–	1	1	–

Cubes

0-5 m^3	1set
6-15 m^3	2set
16-30 m^3	3set
31-50 m^3	4 set

Add 1set for extra 50Cum

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Job No: CACE/BBMP/KSC/6/2022-2023 Date:26.05.2022

TEST REPORT ON CEMENT

Client : **Assistant Executive Engineer,** Project Division, Yelahanka Zone,BBMP, Bangalore.

Agency **Sri. K S Chowdareddy** Contractor, Bangalore

Name of Work Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore

Location R K Hegdenagar

Sample : :Cement (Birla Super 53 grade OPC)

Sample Supplied by: :AGENCY

Date of Manufacture: :April 2022

Date of Testing 24.05.2022 to 26.05.2022

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	345 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50%	-

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Job No.: CACE/BBMP/KSC/6/2022-2023 Date 26.05.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Project Division, BBMP, Bangalore.

Agency **Sri. K S Chowdareddy** Contractor, Bangalore

Name of Work Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore

Location R K Hegdenagar

Date of Testing 26.05.2022

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	68	6.80	6.80	93.2	90-100
2.36	114	11.40	18.20	81.8	75-100
1.18	182	18.20	36.40	63.6	55-90
600 Micron	241	24.10	60.50	39.5	35-59
300 Micron	185	18.50	79.00	21.0	8-30
150 Micron	162	16.20	95.20	4.8	0-10

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Job No.: CACE/BBMP/KSC/6/2022-2023 Date 26.05.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Project Division, Yelahanka Zone,BBMP, Bangalore.

Agency **Sri. K S Chowdareddy** Contractor, Bangalore

Name of Work Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore

Location R K Hegdenagar

Date of Testing 26.05.2022

Material : Plastering Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	26	2.60	2.60	97.4	95-100
2.36	21	2.10	4.70	95.3	95-100
1.18	53	5.30	10.00	90.0	90-100
600 Micron	78	7.80	17.80	82.2	80-100
300 Micron	251	25.10	42.90	57.1	20-65
150 Micron	532	53.20	96.10	3.9	0-15

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Job No.: CACE/BBMP/KSC/6/2022-2023 Date 26.05.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Project Division, Yelahanka Zone,BBMP, Bangalore.

Agency **Sri. K S Chowdareddy** Contractor, Bangalore

Name of Work Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore

Location R K Hegdenagar

Date of Testing 26.05.2022

Material : Masonry Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	26	2.60	2.60	97.4	90-100
1.18	31	3.10	5.70	94.3	70-100
600 Micron	85	8.50	14.20	85.8	40-100
300 Micron	254	25.40	39.60	60.4	5-70
150 Micron	462	46.20	85.80	14.2	0-15

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Job No.: CACE/BBMP/KSC/6/2022-2023 Date 26.05.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Project Division, BBMP, Bangalore.

Agency **Sri. K S Chowdareddy** Contractor, Bangalore

Name of Work Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore

Location R K Hegdenagar

Date of Testing 26.05.2022

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	165	1.10	1.10	98.90	95-100
20	8542	56.95	58.05	41.95	30-70
10	3125	20.83	78.88	21.12	10-35
4.75	2892	19.28	98.16	1.84	0-5

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Asst. Executive Engineer
Project Division
Yelahanka Zone
92

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

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Job No.: CACE/BBMP/KSC/6/2022-2023 Date 26.05.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Project Division, BBMP, Bangalore.

Agency **Sri. K S Chowdareddy** Contractor, Bangalore

Name of Work Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore

Location R K Hegdenagar

Date of Testing 26.05.2022

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	195	3.9	3.9	96.1	95-100
10	2845	56.9	60.8	39.2	25-55
4.75	1745	34.9	95.7	4.3	0-10

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Job No.: CACE/BBMP/KSC/6/2021-2022

Date: 26.05.2022

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client	:	**: Assistant Executive Engineer,** Project Division, Yelahanka Zone,BBMP, Bangalore.
Agency	:	**Sri. K S Chowdareddy** Contractor, Bangalore
Name of Work	:	Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore
Location		R K Hegdenagar
Sample Identification	:	8mm,10mm,12mm,16mm Fe 500 TMT Bars
Technical Reference	:	IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test	:	26.05.2022

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.395	532	624	15
2	Fe 500	10	0.618	521	635	22
3	Fe 500	12	0.889	518	615	18
4	Fe 500	16	1.582	565	636	25
4	Fe 500	20	2.490	581	643	23

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Job No.: CACE/BBMP/KSC/6/2022-2023 Date 27.05.2022

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Assistant Executive Engineer,** Project Division, Yelahanka Zone,BBMP,

Agency **Sri. K S Chowdareddy** Contractor, Bangalore

Name of the Work Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore

Location R K Hegdenagar

Date of Testing 27.05.2022

Size of Blocks : 400mm x 100mm x 200mm

Cross Sectional Area : 40000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	15.5	189.6	4.74	1937.50	Minimum required Compressive Strength of Individual Units 4.00N/mm^2
2	Block 2	14.9	195.1	4.88	1862.50	
3	Block 3	16.5	176.9	4.42	2062.50	
4	Block 4	15.3	180.6	4.52	1912.50	

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Job No: CACE/BBMP/KSC/6/2022-2023 Date 27.05.2022

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Assistant Executive Engineer,** Project Division, Yelahanka Zone,BBMP,

Agency **Sri. K S Chowdareddy** Contractor, Bangalore

Name of the Work Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore

Location R K Hegdenagar

Date of Testing 27.05.2022

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	31.5	419.6	5.25	1968.75	Minimum required Compressive Strength of Individual Units 5.00N/mm^2
2	Block 2	32.6	425.1	5.31	2037.50	
3	Block 3	31.9	428.4	5.36	1993.75	
4	Block 4	33.5	419.6	5.25	2093.75	

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Job No.: CACE/BBMP/KSC/6/2022-2023 Date: 14.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Project Division, Yelahanka Zone,BBMP, Bangalore.

Agency **Sri. K S Chowdareddy** Contractor, Bangalore

Name of the work Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore

Location R K Hegdenagar

Sample ID : Cement Concrete for Footing

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.06.2022	14.06.2022	8.025	419.6	18.65
2	07.06.2022	14.06.2022	8.026	421.5	18.73
3	07.06.2022	14.06.2022	8.154	405.3	18.01

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Client : **Assistant Executive Engineer,** Project Division, Yelahanka Zone,BBMP, Bangalore.

Agency **Sri. K S Chowdareddy** Contractor, Bangalore

Name of the work Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra, BBMP, Bangalore

Location R K Hegdenagar

Sample ID : Cement Concrete for Footing

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.06.2022	14.06.2022	8.202	419.6	18.65
2	07.06.2022	14.06.2022	8.145	421.5	18.73
3	07.06.2022	14.06.2022	8.036	428.1	19.03

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